

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1621MXW

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	28	Oct 21	EVENTLINE has been reloaded
NEWS	29	Oct 24	BEILSTEIN adds new search fields
NEWS	30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	31	Oct 25	MEDLINE SDI run of October 8, 2002 on STN
NEWS EXPRESS			October 14 CURRENT WINDOWS VERSION IS V6.01, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:34:56 ON 30 OCT 2002

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:35:22 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1
DICTIONARY FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

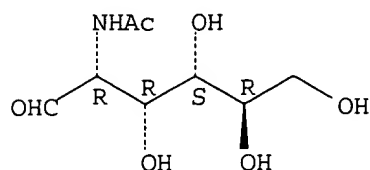
=> s 7512-17-6/rn
L1 1 7512-17-6/RN

=> d L1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 7512-17-6 REGISTRY
CN D-Glucose, 2-(acetylamino)-2-deoxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN D-Glucose, 2-acetamido-2-deoxy- (8CI)
OTHER NAMES:
CN 18: PN: WO0196529 FIGURE: 3 claimed sequence
CN 2-Acetamido-2-deoxy-D-glucose
CN 2-Acetamido-2-deoxyglucose
CN 2-Acetamido-D-glucose
CN 2-Acetylamino-2-deoxy-D-glucose
CN Acetylglucosamine
CN D-N-Acetylglucosamine
CN Marine Sweet
CN N-Acetyl-2-amino-2-deoxy-D-glucose
CN N-Acetyl-2-amino-2-deoxyglucose
CN N-Acetyl-D-glucosamine
CN N-Acetylglucosamine
FS STEREOSEARCH

DR 7132-76-5, 134-61-2, 173382-53-1, 98632-70-3
 MF C8 H15 N O6
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMLIST, CIN, CSChem, EMBASE, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE,
 MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4910 REFERENCES IN FILE CA (1962 TO DATE)
 367 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4924 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s 6614-96-6/rn
 L2 1 6614-96-6/RN

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.34	2.55

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:36:30 ON 30 OCT 2002
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2002 VOL 137 ISS 18
 FILE LAST UPDATED: 29 Oct 2002 (20021029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For

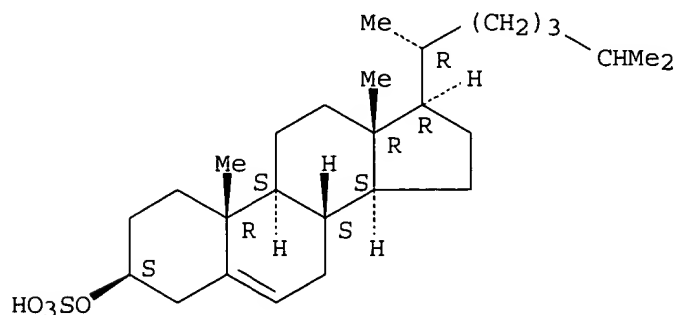
information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> d L2

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 6614-96-6 REGISTRY
CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, potassium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cholesterol, hydrogen sulfate, potassium salt (8CI)
CN Cholesteryl potassium sulfate (6CI, 7CI)
OTHER NAMES:
CN Cholesterol 3-O-(hydrogen sulfate) potassium salt
CN Cholesterol sulfate potassium salt
CN Cholesteryl sulfate potassium salt
CN Potassium cholesterol sulfate
FS STEREOSEARCH
DR 127579-90-2
MF C27 H46 O4 S . K
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
CRN (1256-86-6)

Absolute stereochemistry.



● K

14 REFERENCES IN FILE CA (1962 TO DATE)
14 REFERENCES IN FILE CAPLUS (1962 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

5.31

FILE 'CAPLUS' ENTERED AT 11:37:23 ON 30 OCT 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2002 VOL 137 ISS 18
FILE LAST UPDATED: 29 Oct 2002 (20021029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s L1 and L2
      4927 L1
      15 L2
L3      1 L1 AND L2
```

```
=> d L3 ti
```

```
L3  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
TI  Cholesterol sulfate and amino sugar compositions for enhancement of
    stratum corneum function
```

```
=> d L3 ibib
```

```
L3  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:      2002:594629  CAPLUS
DOCUMENT NUMBER:       137:145222
TITLE:                  Cholesterol sulfate and amino sugar compositions for
                        enhancement of stratum corneum function
INVENTOR(S):            Zecchino, Julius R.; Maes, Daniel H.
PATENT ASSIGNEE(S):     Color Access, Inc., USA
SOURCE:                 PCT Int. Appl., 13 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:          Patent
LANGUAGE:               English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2002060381	A2	20020808	WO 2001-US50767	20011220
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
PT, SE, TR				
US 2002142013	A1	20021003	US 2001-773351	20010131
PRIORITY APPLN. INFO.:			US 2001-773351	A 20010131

```
=> s L2
L4      15 L2
```

=> d L4 1-15 ti

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Cholesterol sulfate and amino sugar compositions for enhancement of stratum corneum function

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Cosmetics containing ginseng extract and cholesterol derivatives

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Nail preparations containing glycolipids

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Nonphospholipid pharmaceutical liposomes

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Nail lacquers containing cholesteryl sulfates

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Hair preparations containing cholesteryl sulfate

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Dispersions of cholesterol sulfate-containing lipid spherules in an aqueous medium

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Sterol side-chain cleavage by immobilized Moraxella sp.: a continuous transformation

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Microbial oxidation of sterol side-chains

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Studies on steroids. Part CXXXXV. Synthesis of conjugated cholesterol and cholestanols

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Sulfation of cholesterol in rat kidney and liver

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Solvolysis of some potassium steryl sulfates by methanol/boron trifluoride and dimethyl sulfoxide

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Uncoupling of oxidative phosphorylation by glycyrrhetic acid, fusidic acid, and some related triterpenoid acids

L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Steroid conjugates. I. Use of sulfamic acid for preparation of steroid sulfates

L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of sulfate esters

=> s L2 and exfoliant

15 L2
22 EXFOLIANT
10 EXFOLIANTS
29 EXFOLIANT
(EXFOLIANT OR EXFOLIANTS)
L5 1 L2 AND EXFOLIANT

=> d L5 ti

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

TI Cholesterol sulfate and amino sugar compositions for enhancement of stratum corneum function

=> d L4 2-7 ibib,abs

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:260711 CAPLUS

DOCUMENT NUMBER: 118:260711

TITLE: Cosmetics containing ginseng extract and cholesterol derivatives

INVENTOR(S): Abe, Takashi; Kondo, Mitsuo

PATENT ASSIGNEE(S): Kanebo Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	JP 05051314	A2	19930302	JP 1991-233912	19910820
AB	Cosmetics contg. cultured ginseng ext. and cholesterol (I) derivs. and optionally amino acids are claimed. The cosmetics activate skin cell, improve circulation, provide skin moisturizing effect, and show wrinkle-preventing and skin-lightening effects. A skin lotion contg. EtOH 10.0, dipropylene glycol 2.0, polyoxyethylene nonylphenyl ether 0.5, methylparaben 0.01, cultured ginseng ext. 5.0, I sulfate sodium salt dihydrate 0.5, L-threonine 0.5, glycerin 5.0, perfume 0.1 wt.%, and H2O balance was prepd.				

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:27849 CAPLUS

DOCUMENT NUMBER: 116:27849

TITLE: Nail preparations containing glycolipids

INVENTOR(S): Ito, Nobukata; Hirose, Taku; Okura, Sayuri

PATENT ASSIGNEE(S): Pola Chemical Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	JP 03145412	A2	19910620	JP 1989-280376	19891027
	JP 2849414	B2	19990120		
AB	Nail preps. contain 0.0001-5 wt.% (based on base materials) glycolipids. Glycolipids, esp. glycosphingolipids, improve moisturizing capacity of nail and show repairing effect on nail damages. These effects are enhanced by combined use of cholesteryl sulfate (I). A nail treatment cream contained polyoxyethylene stearate 3, sorbitan monopalmitate 1, iso-Pr myristate 5, cetyl 2-ethylhexanoate 10, liq. paraffin 5, stearic acid 10, cetanol 3, paraffin wax 3, dehydrated lanolin 2, pyridoxine dipalmitate 0.3, butylparaben 0.1, glycosphingolipids 0.3, I 0.3, methylparaben 0.1, borax 0.5, propylene glycol 5, and H2O 51.4 wt.%.				

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006775	A1	19900628	WO 1989-US5525	19891206
W: AU, DK, FI, JP, NO				
RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
US 4906476	A	19900306	US 1988-284158	19881214
US 5043165	A	19910827	US 1988-284216	19881214
PRIORITY APPLN. INFO.:			US 1988-284158	19881214
			US 1988-284216	19881214

AB A nonconventional liposome compn. consisting of nonphospholipid lipids, esp. cholesterol and cholesterol ester salts, are used for encapsulation of drugs. They are useful for sustained release of steroids, and are suitable for treatment of inflammatory, arthritic, rheumatoid diseases, etc., esp. as aerosols for interstitial lung disease. Beclomethasone dipropionate (I) 10 was incorporated into liposomes prepd. with Na cholesterol sulfate 50 and cholesterol 40 mol %. Sustained release of I was obsd. in rats following intratracheal administration, in contrast to liposomes formulated with phosphatidylcholine and cholesterol.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01305014	A2	19891208	JP 1988-135176	19880601

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01305018	A2	19891208	JP 1988-135177	19880601

AB Hair preps., which have good moisturizing effect and prevent or recover damaged hair, contain 0.01-10 wt.% (based on total bases) cholesteryl sulfate (I) and/or its salts. A hair cream comprised poly(oxyethylene) behenyl ether 5, isostearyl alc. 5, liq. paraffin 35, dehydrated lanolin 2, beeswax 1, cetanol 1.5, butylparaben 0.1, I 4, glycerin 5, and H2O 41.3% by wt.

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1988:479712 CAPLUS
DOCUMENT NUMBER: 109:79712
TITLE: Dispersions of cholesterol sulfate-containing lipid spherules in an aqueous medium
INVENTOR(S): Handjani Vila, Rose Marie; Ribier, Alain; Vanlerberghe, Guy
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Ger. Offen., 13 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3713494	A1	19871029	DE 1987-3713494	19870422
DE 3713494	C2	19930325		
FR 2597367	A1	19871023	FR 1986-5775	19860422
FR 2597367	B1	19880715		
WO 8706499	A1	19871105	WO 1987-FR127	19870417
W: AU, CH, GB, JP, NL, US				
RW: BE, IT				
NL 8720192	A	19880301	NL 1987-20192	19870417
EP 265467	A1	19880504	EP 1987-902547	19870417
EP 265467	B1	19900704		
R: BE, IT				
JP 63501278	T2	19880519	JP 1987-502534	19870417
JP 05049334	B4	19930726		
GB 2198947	A1	19880629	GB 1987-29747	19870417
GB 2198947	B2	19900207		
CH 669535	A	19890331	CH 1987-5071	19870417
CA 1295516	A1	19920211	CA 1987-535105	19870421
ES 2009859	A6	19891016	ES 1987-1165	19870422
AU 8772859	A1	19871124	AU 1987-72859	19870504
AU 588688	B2	19890921		
PRIORITY APPLN. INFO.:			FR 1986-5775	19860422
			WO 1987-FR127	19870417

AB The title spherules comprise nonionic or ionic amphiphilic lipids and .ltoreq.50% cholesterol sulfate. A drug dispersion was prepd. by homogenizing at 90.degree. a nonionic amphiphilic lipid 7.6, Na cholesterol sulfate 0.4, and .beta.-methasone 17-valerate 0.08 g with 20 g H2O, followed by the addn. of Me p-hydroxybenzoate 0.3, glycerol 5.0, and H2O 52.02 g. Subsequent homogenization yielded 0.2 .mu.m spherules, to which perfume 0.4, Carbopol 0.4, triethanolamine 0.4 and H2O 13.8g were added. The amphiphilic lipid was ROCH2CHR1O[CH2CH(CH2OH)O]nH (R =

dodecyl, R1 = equimol. mixt. of tetradecyl and hexadecyl, n = 5.5).

=> file kosmet
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
24.70	30.01

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.72	-3.72

CA SUBSCRIBER PRICE

FILE 'KOSMET' ENTERED AT 11:42:31 ON 30 OCT 2002

COPYRIGHT (C) 2002 International Federation of the Societies of Cosmetics Chemists

FILE LAST UPDATED: 11 SEP 2002 <20020911/UP>

FILE COVERS 1968 TO DATE.

=> s cholesteryl adj sulfate

60 CHOLESTERYL

0 ADJ

639 SULFATE

127 SULFATES

697 SULFATE

(SULFATE OR SULFATES)

L6 0 CHOLESTERYL ADJ SULFATE

(CHOLESTERYL (W) ADJ (W) SULFATE)

=> s cholesteryl sulfate

60 CHOLESTERYL

639 SULFATE

127 SULFATES

697 SULFATE

(SULFATE OR SULFATES)

L7 39 CHOLESTERYL SULFATE

(CHOLESTERYL (W) SULFATE)

=> s cholesterol sulfate

209 CHOLESTEROL

1 CHOLESTEROLS

209 CHOLESTEROL

(CHOLESTEROL OR CHOLESTEROLS)

639 SULFATE

127 SULFATES

697 SULFATE

(SULFATE OR SULFATES)

L8 26 CHOLESTEROL SULFATE

(CHOLESTEROL (W) SULFATE)

=> s L7 or L8

L9 51 L7 OR L8

=> s acetylglucosamine

L10 2 ACETYLGLUCOSAMINE

=> s L9 and L10

L11 0 L9 AND L10

=> d L10 ti

L10 ANSWER 1 OF 2 KOSMET COPYRIGHT 2002 IFSCC

TI CELL CULTURES IN THE PRESENCE OF CHITOSANS AND GAGS

=> d L10 ti 2

L10 ANSWER 2 OF 2 KOSMET COPYRIGHT 2002 IFSCC
TI CELL AGGLUTINATING ACTIVITY OF A-GLIADIN-RELATED SYNTHETIC PEPTIDES

=> s N-acetyl-D-glucosamine
822 N
125 ACETYL
1 ACETYLS
126 ACETYL
(ACETYL OR ACETYLS)
1107 D
23 GLUCOSAMINE
L12 0 N-ACETYL-D-GLUCOSAMINE
(N(W)ACETYL(W)D(W)GLUCOSAMINE)

=> s glucosamine
L13 23 GLUCOSAMINE

=> s L13 and L9
L14 0 L13 AND L9

	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	2.55	32.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-3.72

FILE 'REGISTRY' ENTERED AT 11:44:35 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1
DICTIONARY FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s cholesterol sulfate
1953 CHOLESTEROL
71142 SULFATE
350 SULFATES
71142 SULFATE
(SULFATE OR SULFATES)
L15 14 CHOLESTEROL SULFATE

(CHOLESTEROL (W) SULFATE)

=> s cholesteryl sulfate
1026 CHOLESTERYL
71142 SULFATE
350 SULFATES
71142 SULFATE
(SULFATE OR SULFATES)
L16 12 CHOLESTERYL SULFATE
(CHOLESTERYL (W) SULFATE)

=> s cholesterol sulphate
1953 CHOLESTEROL
121 SULPHATE
L17 0 CHOLESTEROL SULPHATE
(CHOLESTEROL (W) SULPHATE)

=> s cholesteryl sulphate
1026 CHOLESTERYL
121 SULPHATE
L18 0 CHOLESTERYL SULPHATE
(CHOLESTERYL (W) SULPHATE)

=> s L15 or L16
L19 22 L15 OR L16

=> s L19 and glucosamine
2089 GLUCOSAMINE
L20 0 L19 AND GLUCOSAMINE

=> s L19 and acetylglucosamine
1273 ACETYLGLUCOSAMINE
L21 0 L19 AND ACETYLGLUCOSAMINE

=> s L19 and L1
L22 0 L19 AND L1

=> s L1 and cholesterol
1953 CHOLESTEROL
L23 0 L1 AND CHOLESTEROL

=> s L1
L24 1 7512-17-6/RN

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	45.52	78.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-3.72

FILE 'CAPLUS' ENTERED AT 11:47:07 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2002 VOL 137 ISS 18
FILE LAST UPDATED: 29 Oct 2002 (20021029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s L1

L25 4927 L1

=> s L25 and cholesterol

133846 CHOLESTEROL

699 CHOLESTEROLS

134003 CHOLESTEROL

(CHOLESTEROL OR CHOLESTEROLS)

L26 32 L25 AND CHOLESTEROL

=> d L26 1-32 ti

L26 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Formulations comprising entrapped amino sugars

L26 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI **Cholesterol** sulfate and amino sugar compositions for enhancement of stratum corneum function

L26 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Biocompatible surfaces comprising polysaccharide derivatives and a method for their preparation

L26 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Effect of steroid hormones on membrane profiles of HeLa S3 cells

L26 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Method of synthesis of probes for a gas phase ion spectrometer

L26 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Oral compositions and methods of production thereof

L26 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Effect of oral administration of *Cellulomonas flavigena* NTOU 1-degraded chitin hydrolysate on physiological changes in rats

L26 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Method of treatment of glutathione deficient mammals

L26 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Physicochemical properties of recombinant hepatitis B surface antigen expressed in mammalian cell (C127)

L26 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Lectin recognition of liposomes containing neoglycolipids. Influence of their lipidic anchor and spacer length

- L26 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Skin cosmetics
- L26 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Purification and partial characterization of vitellin from the black-legged tick, *Ixodes scapularis*
- L26 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Cosmetic moisturizers containing lipid vesicles for treatment of superficial and deep skin layers
- L26 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Action of cell-surface receptors changing the main characteristics of cellular function, and medical applications thereof in atherosclerosis, diabetes, cancer, and other disorders
- L26 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Purification and characterization of four biliverdin-binding proteins from larval hemolymph of the common cutworm, *Spodoptera litura*
- L26 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI The interaction between wheat germ agglutinin and membrane incorporated glycophorin A. An optical binding study
- L26 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Method for detecting lipoprotein (a) and associated **cholesterol**
- L26 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Subcellular characterization of glycoproteins in the principal cells of human gallbladder. A lectin cytochemical study
- L26 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Erythrocyte membrane structural features that are critical for the lytic reaction of *Spirographis spallanzani* coelomic fluid hemolysin
- L26 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Carbohydrate composition of protein and lipid components in sialic acid-rich and -poor low density lipoproteins from subjects with and without coronary artery disease.
- L26 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Solid-phase method for detecting lipoprotein (a) and associated **cholesterol** in a liquid sample
- L26 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Gut chitin synthase and sterols from larvae of *Diaprepes abbreviatus* (Coleoptera: Curculionidae)
- L26 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Hair tonics containing proteoglycanase inhibitors, glycosaminoglycanase inhibitors, and inhibitors of cellular uptake of glycosaminoglycans
- L26 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Physico-chemical characteristics of mucus glycoproteins and lipids of the human oral mucosal mucus coat in relation to caries susceptibility
- L26 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Free fatty acids: a stimulus for mucin hypersecretion in **cholesterol** gallstone biles
- L26 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2002 ACS
TI Inhibition of cytolysin activity in large granular lymphocyte granules by

lipids: evidence for a membrane insertion mechanism of lysis

L26 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI The sugar spectrum of human **cholesterol** gallstones, mixed and pigment gallstones: combined quantitative analysis of neutral sugars, N-acetylhexosamines, hexuronic and N-acetylneuraminic acids by capillary gas-liquid chromatography

L26 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Incorporation of acylated wheat germ agglutinin into liposomes

L26 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Ortho- and meta-aminobenzoic acid glycosides as anticholesteremics

L26 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Nutrient factors influencing viral replication in serum-free insect cell line culture

L26 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI The phospholipid and glycoprotein composition of T and B cells

L26 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2002 ACS

TI Healing agent for surface wounds

=> s L26 and sulfate

411100 SULFATE

75577 SULFATES

450284 SULFATE

(SULFATE OR SULFATES)

L27 6 L26 AND SULFATE

=> d L27 1-6 ti

L27 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI **Cholesterol sulfate** and amino sugar compositions for enhancement of stratum corneum function

L27 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Biocompatible surfaces comprising polysaccharide derivatives and a method for their preparation

L27 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Action of cell-surface receptors changing the main characteristics of cellular function, and medical applications thereof in atherosclerosis, diabetes, cancer, and other disorders

L27 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Erythrocyte membrane structural features that are critical for the lytic reaction of *Spirographis spallanzani* coelomic fluid hemolysin

L27 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Hair tonics containing proteoglycanase inhibitors, glycosaminoglycanase inhibitors, and inhibitors of cellular uptake of glycosaminoglycans

L27 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Physico-chemical characteristics of mucus glycoproteins and lipids of the human oral mucosal mucus coat in relation to caries susceptibility

=> d L26 1,6,8,11,13,28,32 ibib,abs

L26 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:777599 CAPLUS
 TITLE: Formulations comprising entrapped amino sugars
 INVENTOR(S): Lotz, Martin; Shikhman, Alexander R.; Hwang, San-Gao;
 Hu, Changyong
 PATENT ASSIGNEE(S): The Scripps Research Institute, USA; Optimer
 Pharmaceuticals
 SOURCE: PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002078445	A1	20021010	WO 2002-US9859	20020329

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, GI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-280351P P 20010329

AB Liposome formulations comprising entrapped active ingredients, such as
 amino sugars, and uses thereof are disclosed. In one embodiment,
 intra-articular injectable formulations are provided. DSPC (33 .mu.M) and
cholesterol (33 .mu.M) were dissolved in CHCl₃-MeOH and the
 solvent was evapd. N-Acetylgalactosamine in 0.85% NaCl soln. and mixed
 with the above lipid to form the liposomes.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:573634 CAPLUS
 DOCUMENT NUMBER: 133:182794
 TITLE: Oral compositions and methods of production thereof
 INVENTOR(S): Budny, John A.; Budny, Matthew J.
 PATENT ASSIGNEE(S): Pharmacal Biotechnologies, LLC, USA
 SOURCE: PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047175	A1	20000817	WO 2000-US3681	20000211

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
 CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-249673 A 19990212

AB A compn. for controlling bacterial growth/colonization is provided. The

compn. comprises an enzyme, an anchor mol. coupled to the enzyme to form an enzyme-anchor complex, with the anchor being capable of attaching to a substrate proximal to a bacterial colony. The compn. is produced using recombinant DNA techniques. In one form, the compn. is a fusion protein coded for by a polynucleotide segment. The attachment to the substrate permits prolonged retention time of the enzyme-anchor complex where the bacterial colony is present to increase the effectiveness of the complex. The invention is also for a method of controlling colonization of bacterial plaque in the oral cavity, as well as a method of forming a compn. for controlling the proliferation of bacterial colonies in the oral cavity.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:708599 CAPLUS
DOCUMENT NUMBER: 131:317792
TITLE: Method of treatment of glutathione deficient mammals
INVENTOR(S): Keller, M. D. Robert H.; Kirchenbaum, David W.
PATENT ASSIGNEE(S): Vit-Immune, L.C., USA
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955326	A1	19991104	WO 1999-US9485	19990429
W: CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6262019	B1	20010717	US 1999-302217	19990429
PRIORITY APPLN. INFO.:			US 1998-83661P	P 19980430

AB Glutathione is a tripeptide of extreme importance as a catalyst, reductant, and reactant. The disclosure is of a unique combination of nutritional supplements including N-acetylcysteine, vitamin C, L-glucosamine, N-acetyl-D-glucosamine, quercitin, sylimarin, .alpha.-lipoic acid, and high-protein, low-fat whey that are combined to support various bodily systems involved in glutathione synthesis, reutilization and storage, all intended to elevate glutathione concn. in the mammalian cell.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:79530 CAPLUS
DOCUMENT NUMBER: 128:196472
TITLE: Skin cosmetics
INVENTOR(S): Imahori, Atsuko
PATENT ASSIGNEE(S): NOEVIR Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10029908	A2	19980203	JP 1996-203284	19960712

AB Skin cosmetics showing skin-lightening and antiaging effects contain

chlorogenic acid esters and phospholipid esters, sphingosine or derivs. or esters, glycolipid esters, sugar esters and/or sterol esters in addn. to other ingredients.

L26 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:863573 CAPLUS
DOCUMENT NUMBER: 123:265795
TITLE: Cosmetic moisturizers containing lipid vesicles for treatment of superficial and deep skin layers
INVENTOR(S): Ribier, Alain; Simonnet, Jean-Thierry; Nadaud, Jean-Francois; Le Royer, Isabelle
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Fr. Demande, 17 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2714597	A1	19950707	FR 1993-15864	19931230
FR 2714597	B1	19960209		
EP 665000	A1	19950802	EP 1994-402894	19941215
EP 665000	B1	19961002		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
AT 143586	E	19961015	AT 1994-402894	19941215
ES 2095141	T3	19970201	ES 1994-402894	19941215
CA 2138879	AA	19950701	CA 1994-2138879	19941222
JP 07316013	A2	19951205	JP 1994-326410	19941227
BR 9405481	A	19950919	BR 1994-5481	19941229
HU 71387	A2	19951128	HU 1994-3823	19941229
RU 2125866	C1	19990210	RU 1994-45259	19941229
US 5650166	A	19970722	US 1994-366722	19941230

PRIORITY APPLN. INFO.: FR 1993-15864 A 19931230

AB The title cosmetic moisturizers are claimed. A double liposome moisturizer cream contained PEG stearate: **cholesterol**:Na acylglutamate (47.5:47.5:5) 3.0, wheat glycoceramide 0.15, collagen hydrolyzate 0.5, and soya protein hydrolyzate 0.5% in the vesicles for deep layers; Natipide II 3.0, glycerin 0.5, and Na pyrrolidonecarboxylate 0.4% for the superficial layers; vegetable oil 13.0, karite butter 4.0, silicon oil 4.0, and perfumes 0.4% in the oil phase; and preservative 0.3, carboxyvinyl polymer 0.4, NaOH q.s. pH = 6, and water q.s. 100% in the aq. phase.

L26 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:3035 CAPLUS
DOCUMENT NUMBER: 100:3035
TITLE: Incorporation of acylated wheat germ agglutinin into liposomes
AUTHOR(S): Carpenter-Green, Sharon; Huang, Leaf
CORPORATE SOURCE: Dep. Biochem., Univ. Tennessee, Knoxville, TN, 37996-0840, USA
SOURCE: Anal. Biochem. (1983), 135(1), 151-5
CODEN: ANBCA2; ISSN: 0003-2697
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Purified wheat germ agglutinin (WGA) was derivatized with palmitic acid at an av. stoichiometry of 1 fatty acid/dimer. Palmitoyl WGA was readily incorporated into liposomes with a Na cholate dialysis method. The acylation reaction was done in the presence of N-acetylglucosamine to protect the active site of wheat germ agglutinin, and Na cholate (instead of Na deoxycholate) was used throughout the procedure. Liposome bound WGA

caused agglutination of red blood cells at a concn. 8-fold lower than that of the native lectin. Furthermore, enhanced binding of liposome-bound WGA to mouse spleen cells was also obsd. Potential applications of the liposome-bound lectin are discussed.

L26 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1962:423547 CAPLUS
DOCUMENT NUMBER: 57:23547
ORIGINAL REFERENCE NO.: 57:4776a-c
TITLE: Healing agent for surface wounds
PATENT ASSIGNEE(S): Chas. Pfizer & Co., Inc.
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 896940		19620523	GB	
US 3232836		1966	US	

PRIORITY APPLN. INFO.: US 19590824

AB An effective process of facilitating the healing of wounds of the body surface is described which materially reduces the time during which the possibility of infection is greatest. In an example, 2000 g. N-acetylglucosamine is added to 20 l. of 0.1% aq. saline soln. The resulting soln. is filtered through a Seitz filter and stored in infusion bottles each contg. 1 l. of 10% soln. The soln. is useful for intravenous administration to a human host having a surface wound. In addn. to a remarkable improvement in healing time, such patients generally show a sense of well being, maintain body wt., and exhibit pos. N balance in place of the usually expected neg. balance during the immediate postoperative period; there is also a marked lowering of blood **cholesterol**.

=> d L27 2,5 ibib,abs

L27 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:195197 CAPLUS
DOCUMENT NUMBER: 134:227437
TITLE: Biocompatible surfaces comprising polysaccharide derivatives and a method for their preparation
INVENTOR(S): Nelson, Deanna J.; Hai, Ton That; Pereira, David E.; Estep, Timothy N.
PATENT ASSIGNEE(S): Baxter International Inc., USA
SOURCE: U.S., 19 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6204254	B1	20010320	US 1997-928841	19970912

AB A novel group of compds. is disclosed for decorating the surface of synthetic polymeric or tissue derived prostheses to prevent adverse rejection events. The decorating mols. are obtained as derivs. of naturally occurring polysaccharides, derivatized to provide functionally reactive groups at the termini thereof, and the reacting with nucleophilic or other groups on the surface of the prosthesis in a simple one step reaction. Some of these reagents are useful in noncovalent adsorption to polyolefinic or perfluorocarbon based materials. Finally, phospholipids

partially substituted with the nonantigenic polysaccharides provide a superior bipolar component for liposome formation. Chondroitin sulfate-modified-distearoyl phosphatidylethanolamine (I) was prepd. by reaction of chondroitin sulfate-CO-N-oxysuccinimide with lyso-distearoyl phosphatidylethanolamine. Liposomes were prepd. by micro-fluidization (emulsification) of a compn. of I/hydrogenated soy phosphatidylcholine/cholesterol in molar proportions of 5:55:40, resp. It is anticipated that the blood circulation half-lives of the biocompatible liposomes will be significantly longer than those of liposomes formulated without the I.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:412332 CAPLUS

DOCUMENT NUMBER: 111:12332

TITLE: Hair tonics containing proteoglycanase inhibitors, glycosaminoglycanase inhibitors, and inhibitors of cellular uptake of glycosaminoglycans

PATENT ASSIGNEE(S): Unilever N. V., Neth.

SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63166823	A2	19880711	JP 1987-326597	19871223
JP 03029764	B4	19910425		
CA 1319889	A1	19930706	CA 1987-554275	19871214
US 5015470	A	19910514	US 1987-134422	19871217
AU 8782813	A1	19880623	AU 1987-82813	19871218
AU 615170	B2	19910926		
ZA 8709564	A	19890830	ZA 1987-9564	19871221
IN 166979	A	19900811	IN 1987-BO370	19871221
EP 277428	A2	19880810	EP 1987-311315	19871222
EP 277428	A3	19910313		
EP 277428	B1	19940323		

R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE

AT 103165	E	19940415	AT 1987-311315	19871222
-----------	---	----------	----------------	----------

ES 2051758	T3	19940701	ES 1987-311315	19871222
------------	----	----------	----------------	----------

BR 8707033	A	19880802	BR 1987-7033	19871223
------------	---	----------	--------------	----------

PRIORITY APPLN. INFO.:	GB 1986-30721	19861223
------------------------	---------------	----------

	EP 1987-311315	19871222
--	----------------	----------

AB Hair tonics are prepd. which contain enzyme inhibitors, such as proteoglycanase inhibitors, glycosaminoglycanase inhibitors, and inhibitors of cell uptake of glycosaminoglycans, and vehicles as carriers of these inhibitors. Thus, a hair lotion was prepd. consisting of L-galactono-1,4-lactone 0.1, EtOH 99.995% by wt. and a perfume q.s. Thirty other hair lotions and tonics were prepd.

=> file stng

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

40.17	118.25
-------	--------

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-5.58	-9.30
-------	-------

FILE 'STNGUIDE' ENTERED AT 11:55:17 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Oct 25, 2002 (20021025/UP).

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.54	118.79
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.30

FILE 'CAPLUS' ENTERED AT 12:00:58 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2002 VOL 137 ISS 18
FILE LAST UPDATED: 29 Oct 2002 (20021029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.79	119.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.30

FILE 'REGISTRY' ENTERED AT 12:02:20 ON 30 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1
DICTIONARY FILE UPDATES: 29 OCT 2002 HIGHEST RN 467418-81-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s cholesteryl sulfate
      1026 CHOLESTERYL
      71142 SULFATE
      350 SULFATES
      71142 SULFATE
          (SULFATE OR SULFATES)
L28      12 CHOLESTERYL SULFATE
          (CHOLESTERYL(W) SULFATE)
```

```
=> d L28 1-12 cn
```

```
L28 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, compd. with
  2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanol, 2,2',2''-nitrilotris-, compd. with (3.beta.)-cholest-5-en-3-yl
  hydrogen sulfate (1:1) (9CI)
OTHER NAMES:
CN Triethanolamine cholesteryl sulfate

L28 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, magnesium salt (9CI) (CA
  INDEX NAME)
OTHER NAMES:
CN Magnesium cholesteryl sulfate

L28 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN L-Lysine, compd. with (3.beta.)-cholest-5-en-3-yl hydrogen sulfate (9CI)
  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, compd. with L-lysine (9CI)
OTHER NAMES:
CN Cholesterol hydrogen sulfate, compd. with L-lysine
CN Cholesteryl sulfate lysine salt

L28 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN 1-Methylpyridinium cholesteryl sulfate (6CI) (CA INDEX NAME)

L28 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, calcium salt (9CI) (CA
  INDEX NAME)
OTHER NAMES:
CN Calcium cholesteryl sulfate
CN Cholesterol hydrogen sulfate calcium salt
CN Cholesteryl sulfate calcium salt

L28 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2002 ACS
CN Desmolase, cholesteryl sulfate 20-22- (9CI) (CA INDEX NAME)

L28 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2002 ACS
```

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, sodium salt, dihydrate
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Sodium cholesteryl sulfate dihydrate**

L28 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2002 ACS

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, potassium salt (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholesterol, hydrogen sulfate, potassium salt (8CI)

CN Cholesteryl potassium sulfate (6CI, 7CI)

OTHER NAMES:

CN Cholesterol 3-O-(hydrogen sulfate) potassium salt

CN Cholesterol sulfate potassium salt

CN **Cholesteryl sulfate potassium salt**

CN Potassium cholesterol sulfate

L28 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2002 ACS

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, sodium salt (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholesterol, hydrogen sulfate, sodium salt (8CI)

CN Cholesteryl sodium sulfate (6CI)

OTHER NAMES:

CN **Cholesteryl sulfate sodium salt**

CN **Sodium cholesteryl sulfate**

L28 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2002 ACS

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, ammonium salt (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN **Ammonium cholesteryl sulfate (7CI)**

CN Cholesterol, hydrogen sulfate ammonium salt (8CI)

OTHER NAMES:

CN Cholesterol sulfate ammonium salt

CN Cholesteryl ammonium sulfate

L28 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2002 ACS

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate, compd. with pyridine (1:1)
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholesterol, hydrogen sulfate, compd. with pyridine (1:1) (8CI)

CN **Cholesteryl sulfate, compd. with pyridine (6CI, 7CI)**

CN **Pyridine, cholesteryl sulfate**

CN Pyridine, compd. with (3.beta.)-cholest-5-en-3-yl hydrogen sulfate (1:1)

OTHER NAMES:

CN Pyridinium cholesterol sulfate

L28 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2002 ACS

CN Cholest-5-en-3-ol (3.beta.)-, hydrogen sulfate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholesterol, hydrogen sulfate (7CI, 8CI)

OTHER NAMES:

CN 5-Cholesten-3.beta.-yl sulfate

CN Cholest-5-en-3.beta.-ol sulfate

CN Cholesterol 3-sulfate

CN Cholesterol sulfate

CN **Cholesteryl sulfate**

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST	27.72	147.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.30

FILE 'CAPLUS' ENTERED AT 12:03:37 ON 30 OCT 2002
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2002 VOL 137 ISS 18
 FILE LAST UPDATED: 29 Oct 2002 (20021029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s L28
L29      566 L28

=> s L29 and L1
      4927 L1
L30      1 L29 AND L1

=> s L1
L31      4927 L1

=> s L29 and L31
L32      1 L29 AND L31

=> s L29 and exfoliant
      22 EXFOLIANT
      10 EXFOLIANTS
      29 EXFOLIANT
      (EXFOLIANT OR EXFOLIANTS)
L33      1 L29 AND EXFOLIANT

=> s L29 and aminosugar
      340 AMINOSUGAR
      217 AMINOSUGARS
      510 AMINOSUGAR
      (AMINOSUGAR OR AMINOSUGARS)
L34      0 L29 AND AMINOSUGAR

=> s L29 and glucosamine
      18198 GLUCOSAMINE
      270 GLUCOSAMINES
```


18281 GLUCOSAMINE
(GLUCOSAMINE OR GLUCOSAMINES)

L35 5 L29 AND GLUCOSAMINE

=> d L35 1-5 ti

L35 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

TI Cholesterol sulfate and amino sugar compositions for enhancement of stratum corneum function

L35 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS

TI A method of increasing nucleic acid synthesis with ultrasound

L35 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS

TI Effect of sulfated compounds on acid sialidase

L35 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS

TI Gas filled microspheres as computed tomography contrast agents

L35 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

TI Gas-filled microspheres as magnetic resonance imaging (MRI) contrast agents

=> d L35 3-5 ibib

L35 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:758062 CAPLUS

DOCUMENT NUMBER: 130:121253

TITLE: Effect of sulfated compounds on acid sialidase

AUTHOR(S): Nagaoka, Megumi; Shiraishi, Takayuki; Furuhashi, Kimio; Uda, Yutaka

CORPORATE SOURCE: Department of Health Chemistry, Niigata College of Pharmacy, Niigata, 950-2081, Japan

SOURCE: Biological & Pharmaceutical Bulletin (1998), 21(11), 1134-1138

CODEN: BPBLEO; ISSN: 0918-6158

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:128033 CAPLUS

DOCUMENT NUMBER: 124:185545

TITLE: Gas filled microspheres as computed tomography contrast agents

INVENTOR(S): Unger, Evan C.

PATENT ASSIGNEE(S): IMARx Pharmaceutical Corp., USA

SOURCE: PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9532006	A1	19951130	WO 1995-US6499	19950522
W: AU, CA, CN, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5874062	A	19990223	US 1995-445299	19950519

AU 9526013	A1	19951218	AU 1995-26013	19950522
AU 700799	B2	19990114		
EP 760684	A1	19970312	EP 1995-920616	19950522
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10500692	T2	19980120	JP 1995-530494	19950522
AU 9914280	A1	19990527	AU 1999-14280	19990129
AU 740155	B2	20011101		

PRIORITY APPLN. INFO.:

US 1994-247656	A	19940523
US 1995-445299	A	19950519
US 1991-680984	A3	19910405
US 1993-980594	A3	19930119
US 1993-116982	A2	19930907
WO 1995-US6499	W	19950522
AU 1995-33103	A3	19951006

L35 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:994994 CAPLUS

DOCUMENT NUMBER: 124:49699

TITLE: Gas-filled microspheres as magnetic resonance imaging (MRI) contrast agents

INVENTOR(S): Unger, Evan C.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 111 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 19

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524184	A1	19950914	WO 1995-US2782	19950310
W: AU, CA, CN, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 660687	B1	19981028	EP 1992-912455	19920331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
AT 172625	E	19981115	AT 1992-912455	19920331
ES 2124733	T3	19990216	ES 1992-912455	19920331
JP 3053217	B2	20000619	JP 1992-500845	19920331
US 5922304	A	19990713	US 1995-401974	19950309
AU 9521573	A1	19950925	AU 1995-21573	19950310
EP 797433	A1	19971001	EP 1995-914685	19950310
R: DE, FR, GB				
JP 09510204	T2	19971014	JP 1996-523574	19950310

PRIORITY APPLN. INFO.:

US 1994-212553	A	19940311
US 1995-401974	A	19950309
US 1989-455707	B2	19891222
US 1990-569828	A2	19900820
US 1991-716793	A	19910618
US 1991-716899	B2	19910618
US 1991-717084	A2	19910618
WO 1992-US2610	W	19920331
US 1993-76239	A2	19930611
US 1993-76250	A2	19930611
US 1993-159674	B2	19931130
US 1993-159687	A2	19931130
US 1993-160232	A2	19931130
US 1994-307305	A2	19940916
WO 1995-US2782	W	19950310